

ABSTRACT

A record management system is provided for generating a multi-dimensional view for different measures. A set of records is retrieved in response to a set of queries. The records include dimension values and measure values, which are associated with the measures. The set of records is maintained in a master table. The record management system generates a record structure foundation, including a query map and a master table index. The record management system then employs the record structure foundation to generate a multi-dimensional layout mapping for the measures that are to be represented in the view. The record structure foundation and measure values in the master table are used to convert the layout mapping into the desired multi-dimensional view. The record management system includes data storage units for implementing the master table, query map, master table index, and layout mapping. These data storage units are coupled to a set of processing engines, which include a control engine, query engine, index engine, and layout engine that provide for performing operations that result in the generation of a multi-dimensional view.